



USNA Proportional Outcomes Study SLT Brief March 19, 2013 CAPT (b) (6)

Pre-Decisional Working Document

1

Equity Study and Assessment Committee (ESAC)

Purpose

- to assess the equity of access and achievement of various midshipmen demographic sub-groups from multiple perspectives
- to recommend policies and procedures to address identified disparities in outcomes

Context

- Over the 47-month USNA Program
- Equity is about **Opportunity** and **Outcomes**

2

Equity Perspectives

- Graduation Rates/Retention and Attrition
- Academic Excellence
- Professional Excellence
- Physical Mission
- Institutional Receptivity

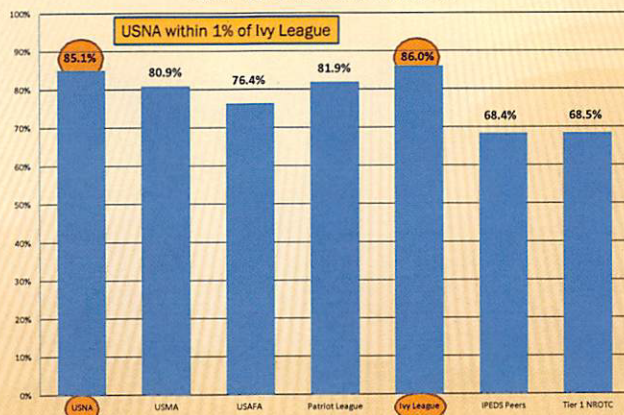
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Graduation Rates and Attrition Baseline

- Comparison Groups**
 - West Point, Air Force Academy
 - Patriot League
 - Ivy League Schools and Stanford
 - Integrated Postsecondary Education System (IPEDS) Comparison Group (48 institutions)
 - Tier 1 NROTC Units (27 institutions)
- Demographics**
 - Gender
 - Race and Ethnic Categories
 - Admissions Feeder Source (Direct, NAPS)
 - Varsity Athletics

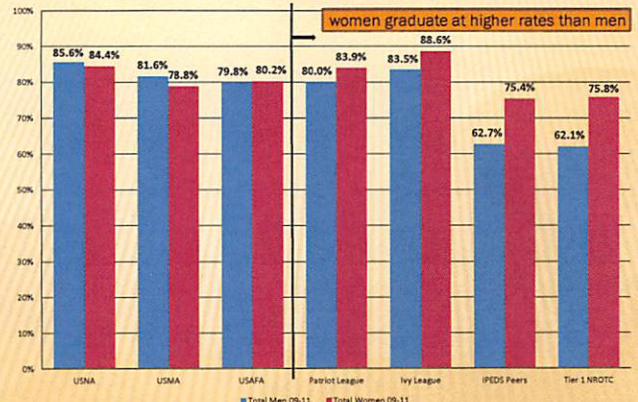
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USNA compared to Peers
Total 4 Year Graduation Rates 2009-11

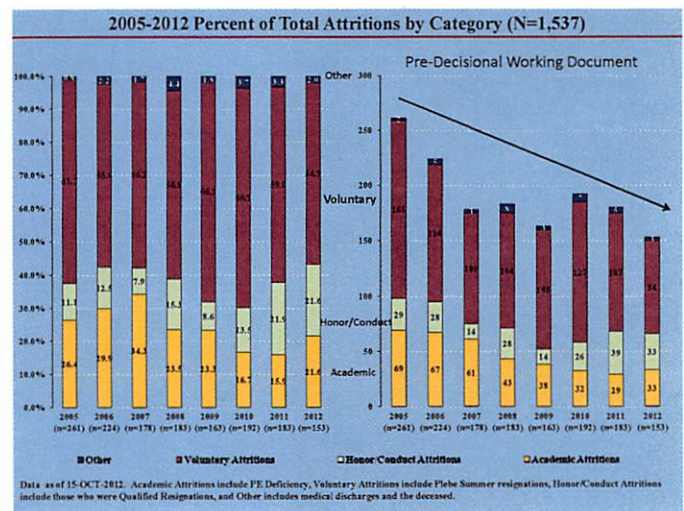
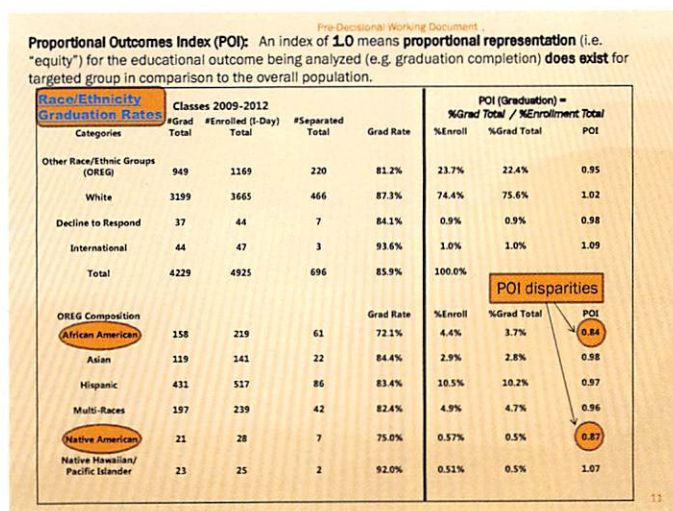
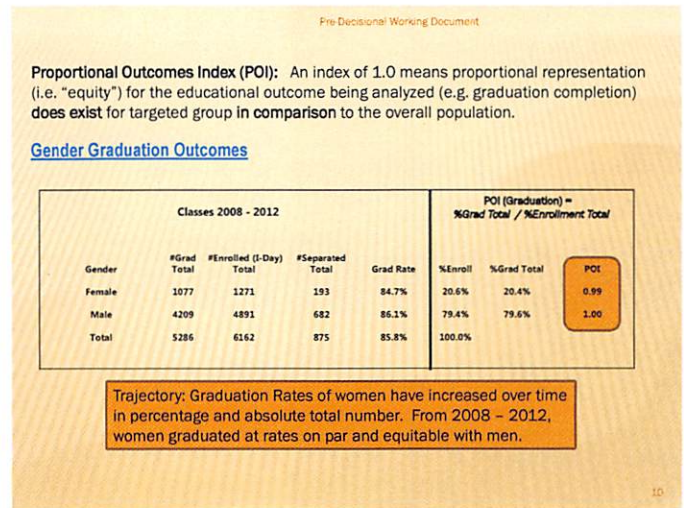
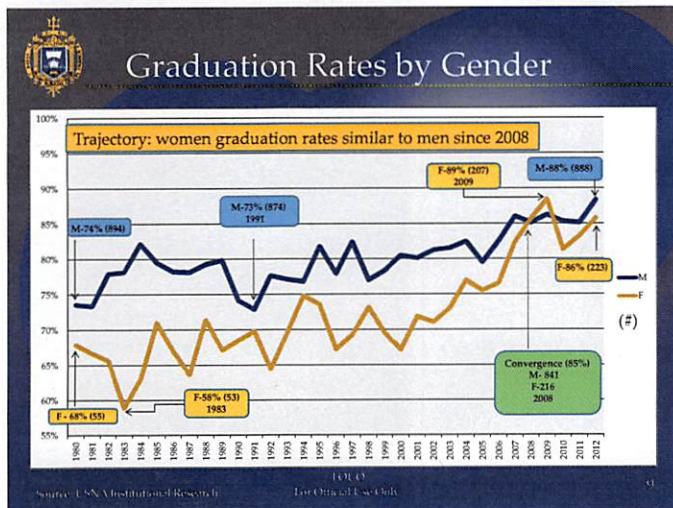
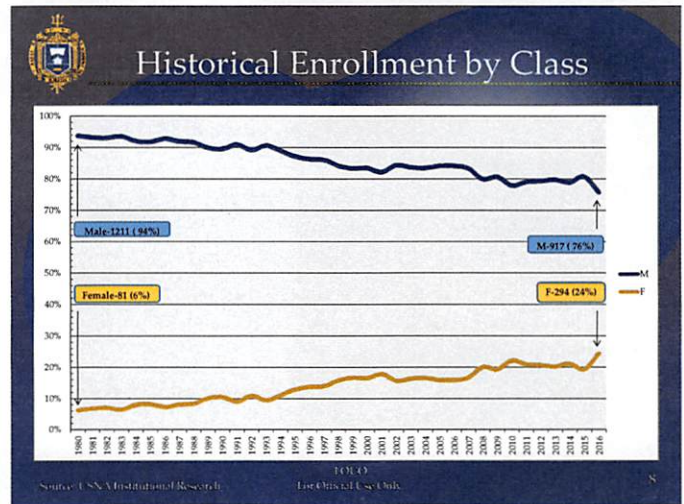
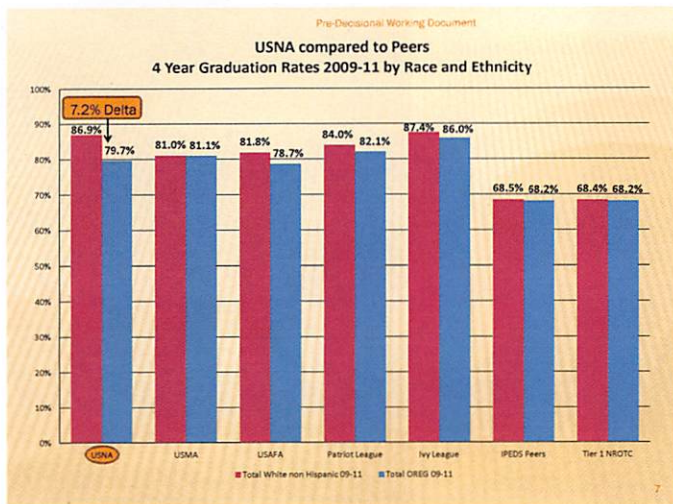


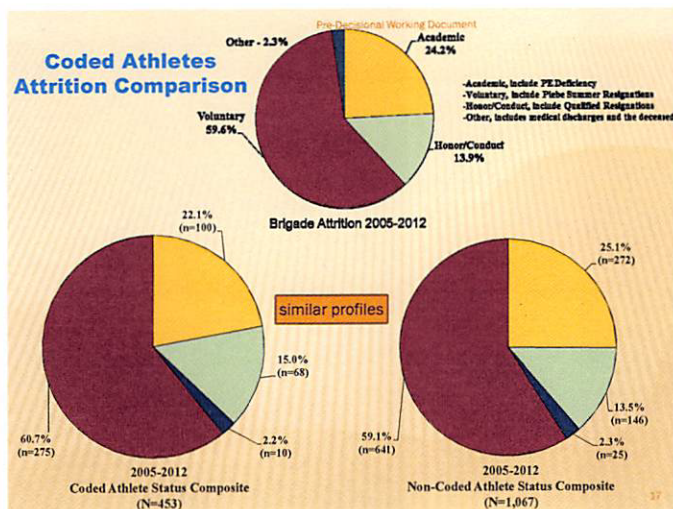
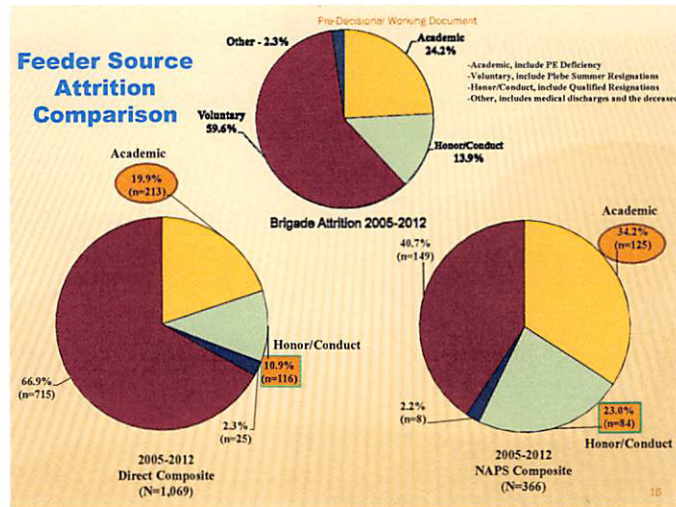
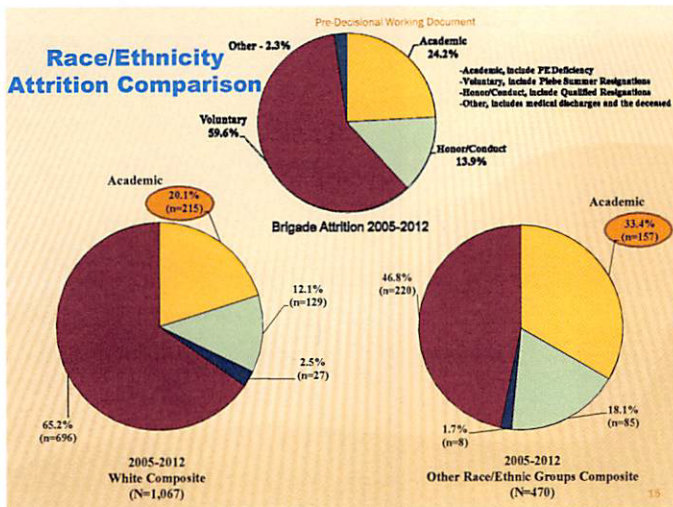
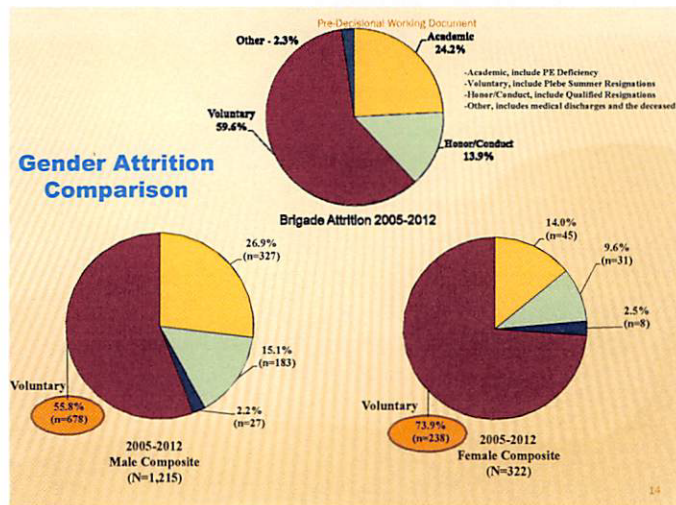
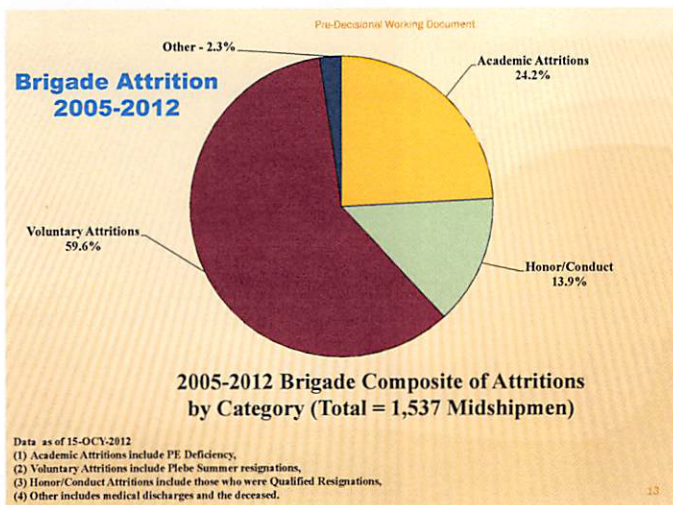
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USNA compared to Peers
4 Year Graduation Rates 2009-11 by Gender



6





(b) (5)



Questions?

USNA Proportional Outcomes Study SLT Deep Dive



CAPT Pat L. Williams, Ph.D., PHR
Chief Diversity Officer, U.S. Naval Academy
<http://www.usna.edu/Diversity>

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Equity Study and Assessment Committee (ESAC)

Purpose

- To assess the equity of **access and achievement** of various midshipmen demographic sub-groups from multiple perspectives
- To recommend policies and procedures to address identified disparities in outcomes

Context

- Over the 47-month USNA Program
- Equity is about **Opportunity and Outcomes**

What is Equity?

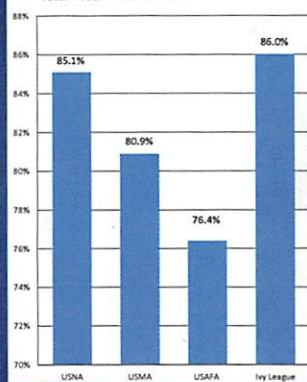
Equity

- The proportion of a midshipmen-group in the general population in comparison to the proportion of this same midshipmen-group in the target population.

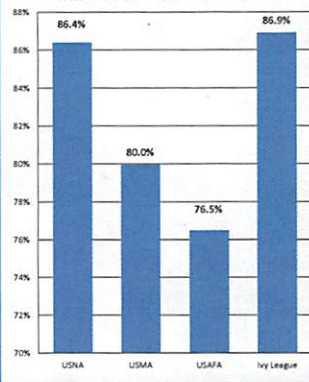
Example

- If the proportion of females in a class at **entry** (I-Day) is 20% and the proportion of females in that class at **graduation** is 20%, then there is equity.
- Data is disaggregated by race / ethnicity (& gender).
- Equity is inextricably linked to delivery of mission to develop, morally, mentally, and physically, ethical leaders of character & consequence.

USNA compared to Peers
Total 4 Year Graduation Rates 2009-11



USNA compared to Peers
Total 4 Year Graduation Rates 2012-13



Competitive Graduation Rates!

IPI Os data available through 2013

USNA compared to Peers

Proportional Outcomes Index (POI): An index of 1.0 means proportional representation (i.e., "equity") for the educational outcome being analyzed (e.g., graduation completion) does exist for targeted group in comparison to the overall population.

Gender Graduation Outcomes

| Classes 2009 - 2012 | | | | Classes 2013 - 2015 | | | |
|----------------------------------------------------|---------|-------------|------|----------------------------------------------------|---------|-------------|------|
| POI (Graduation) = %Grad Total / %Enrollment Total | | | | POI (Graduation) = %Grad Total / %Enrollment Total | | | |
| Categories | %Enroll | %Grad Total | POI | Categories | %Enroll | %Grad Total | POI |
| Female | 20.7% | 20.4% | 0.99 | Female | 20.2% | 19.8% | 0.98 |
| Male | 79.3% | 79.6% | 1.00 | Male | 79.8% | 80.2% | 1.00 |

Trajectory: Despite a slight disparity in the proportional outcomes index, the graduation rates of women have increased over time in percentage and absolute total number. From 2009 - 2015, women graduated at rates on par and equitable with men.

Source for all data: USNA HR (PED)

USNA compared to Peers

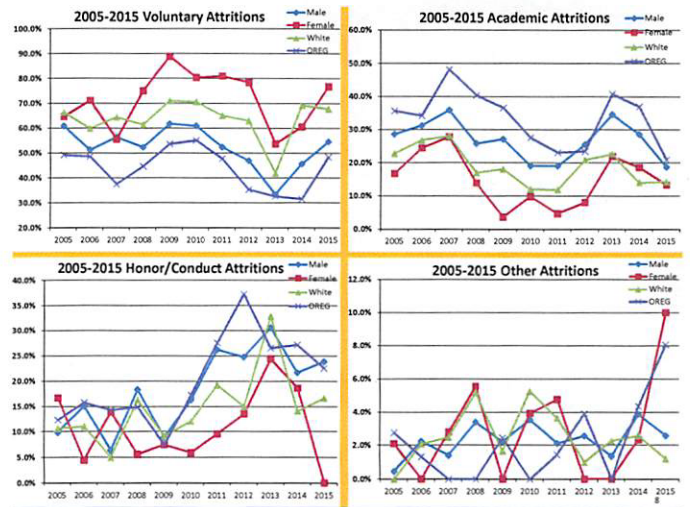
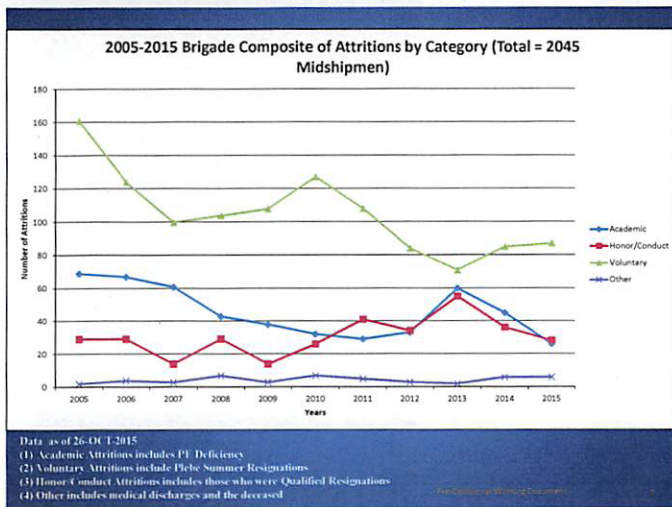
Proportional Outcomes Index (POI): An index of 1.0 means proportional representation (i.e., "equity") for the educational outcome being analyzed (e.g., graduation completion) does exist for targeted group in comparison to the overall population.

Race/Ethnicity Graduation Rates

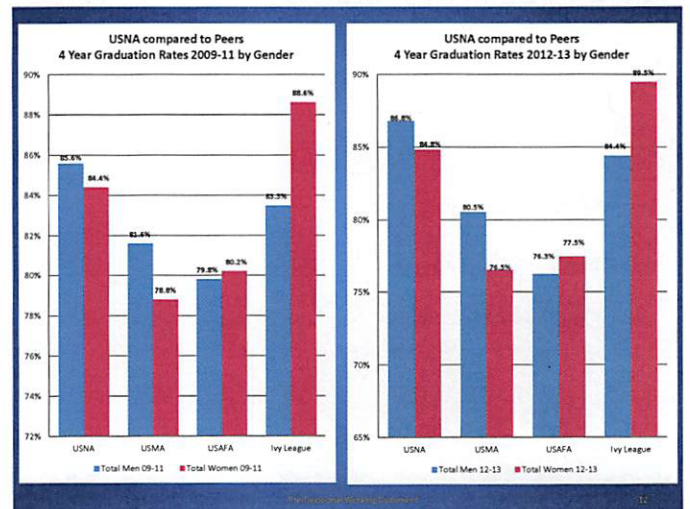
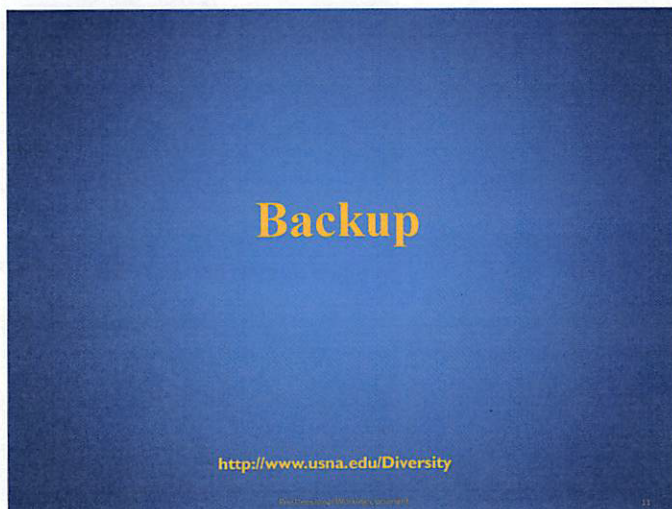
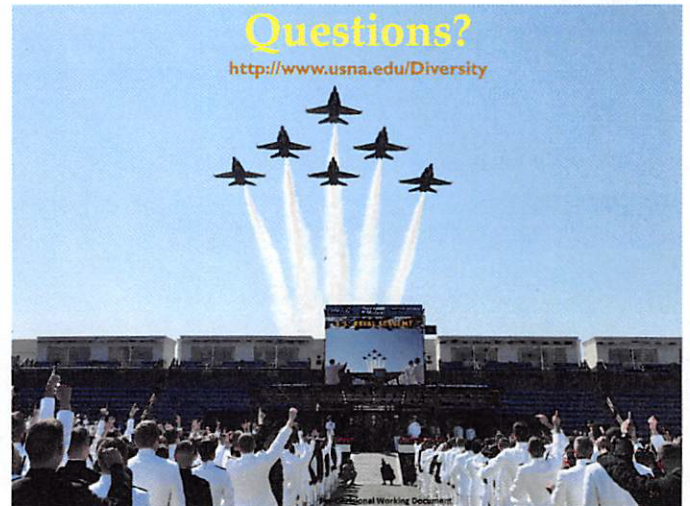
| Classes 2009-2012 | | | | Classes 2013-2015 | | | |
|---------------------------------|---------|-------------|------|---------------------------------|---------|-------------|------|
| Categories | %Enroll | %Grad Total | POI | Categories | %Enroll | %Grad Total | POI |
| Other Race/Ethnic Groups (OREG) | 23.7% | 22.4% | 0.95 | Other Race/Ethnic Groups (OREG) | 35.0% | 32.4% | 0.93 |
| White | 74.4% | 75.6% | 1.02 | White | 65.0% | 67.4% | 1.04 |
| OREG Composition | | | | OREG Composition | | | |
| African American | 4.4% | 3.7% | 0.84 | African American | 7.9% | 6.6% | 0.84 |
| Asian | 2.9% | 2.8% | 0.98 | Asian | 4.7% | 4.8% | 1.02 |
| Hispanic | 10.5% | 10.2% | 0.97 | Hispanic | 13.6% | 12.6% | 0.93 |
| Multi-Races | 4.9% | 4.7% | 0.96 | Multi-Races | 8.1% | 7.3% | 0.93 |

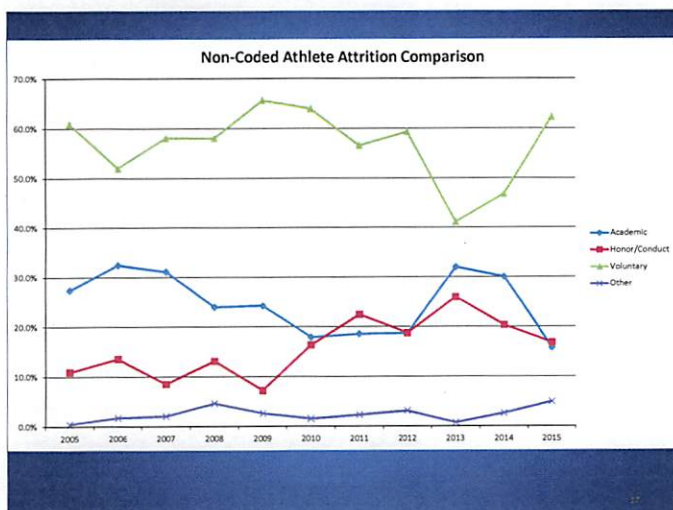
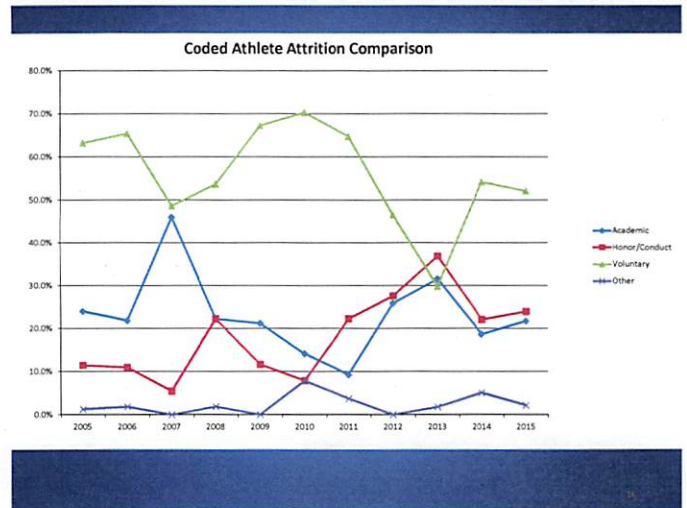
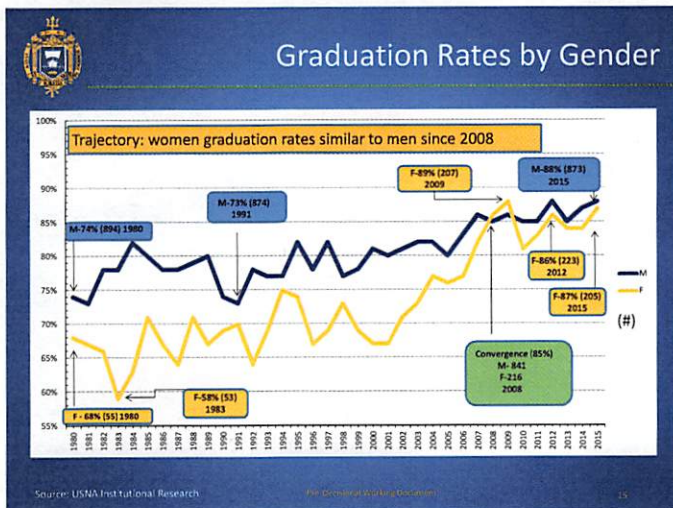
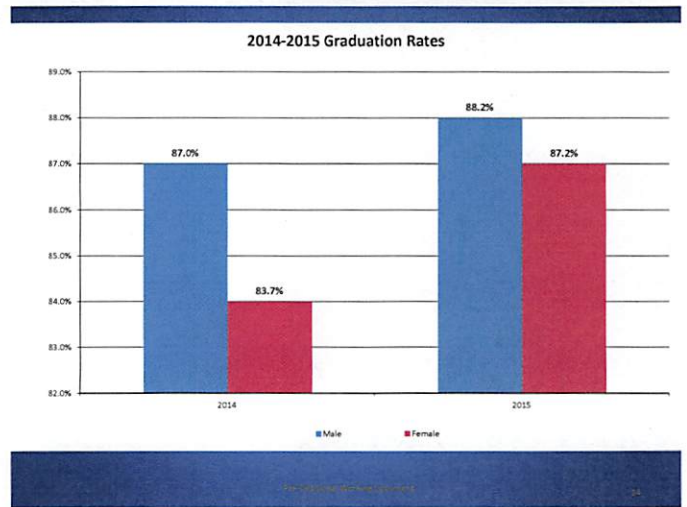
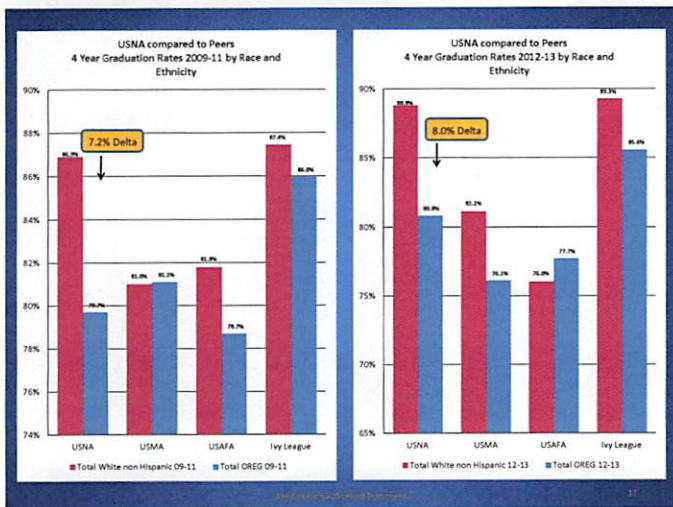
The gap in the proportional outcomes index widened between Whites and OREG from 2013-15. The largest disparity noticed is for African Americans.

USNA compared to Peers



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Academy Effectiveness Board
USNA Post-Commissioning Committee

Schoolhouse Performance Study
USNA Classes 2001-2011

Pre-Decisional Working Document
May 2012

1

**AEB Phase III Charter
(Post-Commissioning Projects)**

- Fleet/Schoolhouse Feedback study
 - “Assess USNA graduates performance from follow-on warfare commands, develop a data gathering process for determining relative success of USNA graduates. Collect and evaluate attributes desired by follow on commands.”
- This study seeks answers to two primary questions
 - How do USNA graduates perform at the initial schoolhouses?
 - How do they perform relative to those from other commissioning sources?

2

Pre-Decisional Working Document

Post-Commissioning Assessment Process

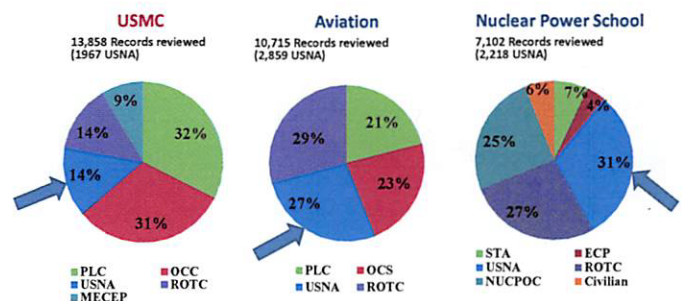
- Team Composed of
 - 3 Principles under ProDev: CDR (b) LCDR (b) (6) and LT (b) (6)
 - Supported by IR for data analysis
- Superintendent initiated data request from initial service schools (CNATRA, SWOS, NPS, TBS)
- Information limited to what schools tracked
 - Not all schools track the same information
 - Affected by changes in curriculum and gaps in data over time
- Over 31,000 records reviewed from CNATRA, TBS and NPS
 - SWOS data received but not used. SWO accessions fleet survey is in progress with results due back 1 June.

Data collection efforts are being institutionalized to ensure continued access and permit regular updates to initial data set

3

Pre-Decisional Working Document

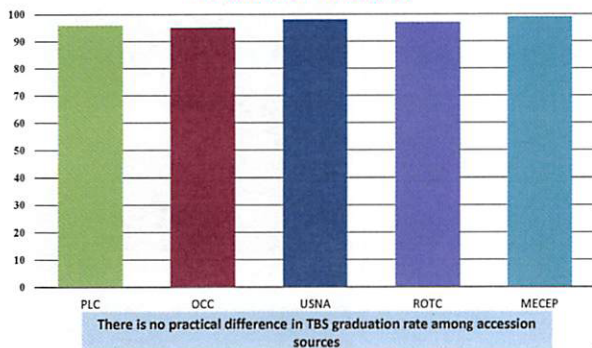
**Commissioning Source Comparison
USNA Contributions (%)**



4

Pre-Decisional Working Document

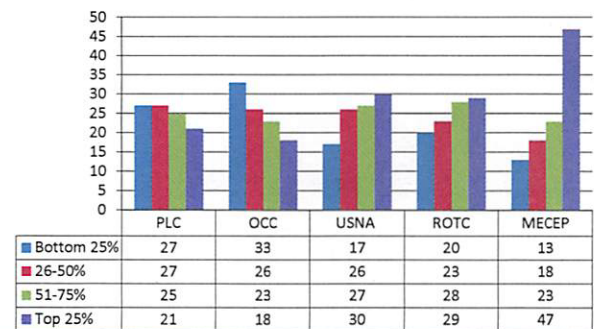
**The Basic School (TBS)
Commissioning Source Performance
Graduation Rate (%)**



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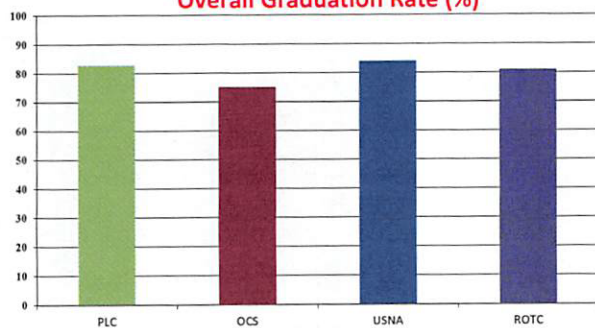
Pre-Decisional Working Document

**TBS Performance by Quartile and
Commissioning Source(%)**



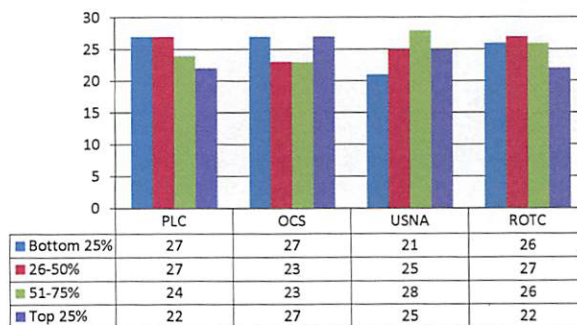
USNA graduates are performing at or above the level of their peers from similar accession sources.

6

Flight School**Commissioning Source Performance**
Overall Graduation Rate (%)

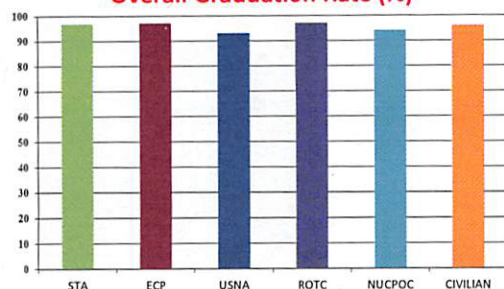
There is no practical difference overall graduation rate among accession sources

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Primary Phase Flight Performance by Quartile and Commissioning Source(%)

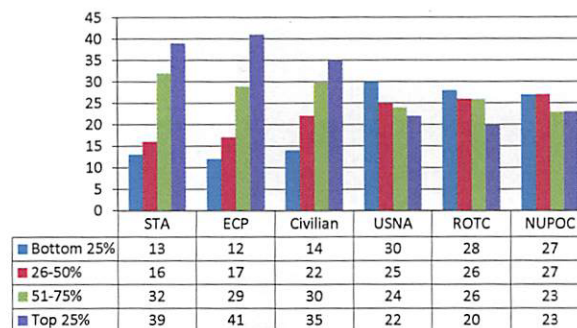
USNA graduates are performing at or above the level of their peers from similar accession sources in Primary Phase Flight scores.

8

Nuclear Power School
Commissioning Source Performance**Overall Graduation Rate (%)**

There is no practical difference in NPS graduation rate among accession sources

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NPS Performance by Graduation Quartile by Commissioning Source(%)

USNA, ROTC, NUCPOC make up 82% of the students at NPS. USNA is the only source providing a significant number of non-STEM majors

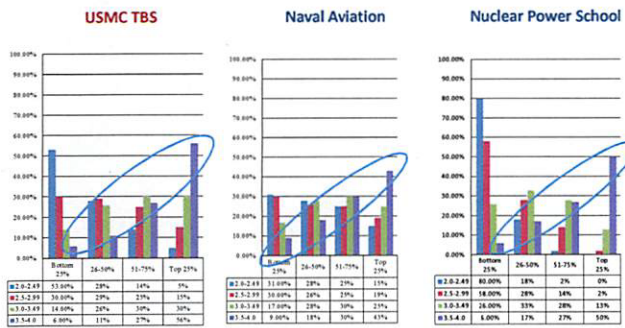
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General Study Impressions

- Data validates that there are only small differences between the performance of newly commissioned officers regardless of the commissioning source
- USNA Grads are performing on par or above peers from other commissioning sources

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Performance by Academic QPR

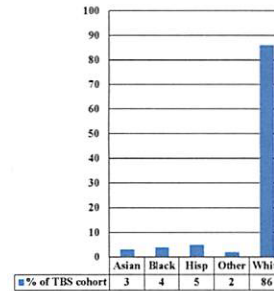


Strong Academic QPR generally means good performance across the board

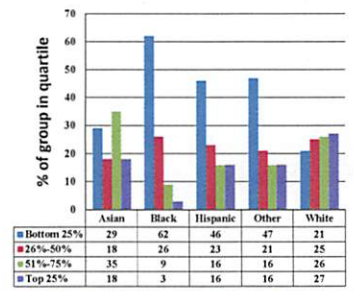
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USNA Grad Performance at TBS by ethnicity

Demographics



Performance



Minorities appear to struggle at TBS in overall performance. This is true for all accession sources.

USNA graduates Classes of 2002-2011

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Questions?



Academy Effectiveness Board Review

2015 Graduate Effectiveness Survey

July 2015

1



Graduate Effectiveness survey supports USNA Strategic Plan 2020

2020 Vision: To be the nation's premier institution for developing future naval leaders from diverse backgrounds to serve in an increasingly interdependent and dynamic world.

Strategic Imperatives

1. Recruit, admit and graduate a diverse and talented Brigade of Midshipmen.
2. Graduate officers whose attributes and educational and experiential preparation meet the Navy and Marine Corps' current and future requirements.
3. Attract, develop, and retain faculty, staff and coaches who model the highest professional standards and who educate, enrich and inspire a diverse and talented Brigade.
4. Align all midshipmen's moral, mental, and physical core experiences to prepare them for future service in any naval warfare community.
5. Integrate ethical leadership and character development efforts across all academic, professional, athletic and extracurricular programs.
6. Leverage internal and external collaborations to engage midshipmen in relevant learning opportunities that develop the broad range of competencies required by the 21st century Naval Service.
7. Establish and maintain state-of-the-art facilities that inspire and support the pursuit of academic professional and athletic excellence.
8. Apply exemplary business and assessment practices that ensure the sound stewardship of all resources and result in continual process and program improvement.
9. Develop strategic relationships with alumni, friends and national institutions of influence that contribute to the Naval Academy's success and America's security and prosperity.
10. Maintain institutional flexibility and achieve a margin of excellence by working collaboratively with the Naval Academy Foundation to emphasize the strategic importance of unrestricted and restricted gifts and prudently steward these essential resources.

2



AEB Assessment 2012

- Directed by Superintendent via SLT
 - Phase I: Projects Related to Outreach, Recruitment, and Preparation
 - Phase II: Projects Related to the 47-Month USNA Program
 - Phase III: Post-Commissioning Projects
 - **Fleet/Schoolhouse Feedback Study**

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Pre-Decisional Working Document



AEB Phase III Charter (Post-Commissioning Projects)

- Fleet/Schoolhouse Feedback study
 - "Assess USNA graduates performance from follow-on warfare commands, develop a data gathering process for determining relative success of USNA graduates. Collect and evaluate attributes desired by follow on commands."
- Study sought to answer two primary questions
 - 1) How do USNA graduates perform at the initial schoolhouses?
 - 2) How do they perform relative to those from other commissioning sources?

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Post-Commissioning Assessment Process

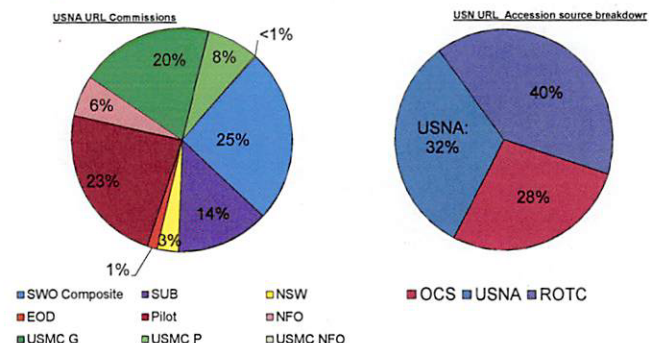
- Team
 - Officer Accessions Staff, supported by IR for data analysis
- Superintendent initiated data request from initial service schools (CNATRA, SWOS, NPS, TBS)
- Information limited to what schools tracked
 - Graduation rates, standing in class, etc
- Over 31,000 records reviewed from CNATRA, TBS and NPS
 - SWOS data not used

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Pre-Decisional Working Document



Survey Background Data from 2001-2011

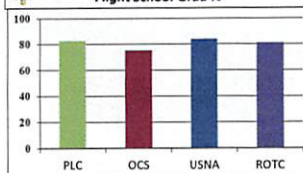


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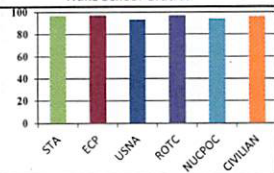


Study Impressions

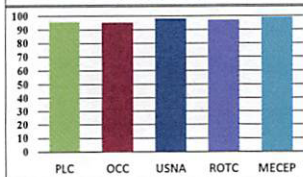
Flight School Grad %



Nuke School Grad %



USMC TBS Grad %



- Data validates that there are only small differences between the performance of newly commissioned officers regardless of the commissioning source
- USNA Grads are performing on par or above peers from other commissioning sources

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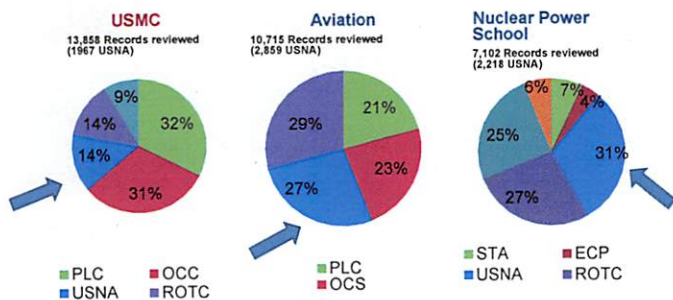
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Backups



Commissioning Source Comparison USNA Contributions (%)

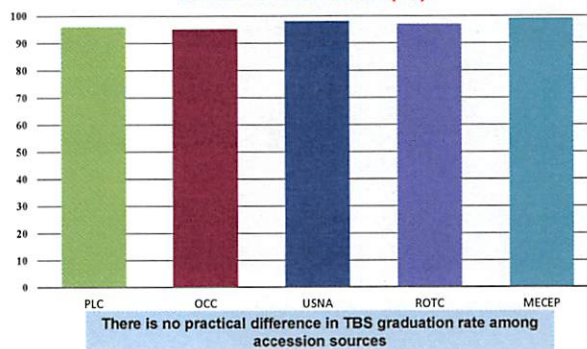


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The Basic School (TBS) Commissioning Source Performance

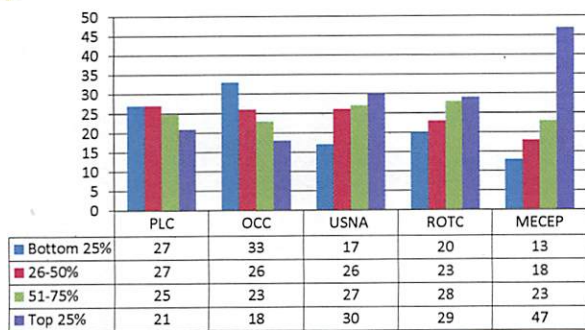
Graduation Rate (%)



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TBS Performance by Quartile and Commissioning Source(%)



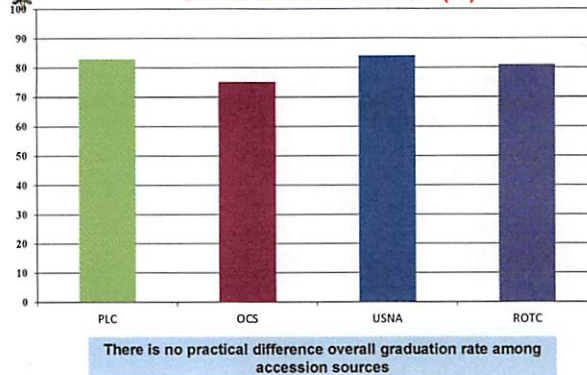
USNA graduates are performing at or above the level of their peers from similar accession sources.

15



Flight School Commissioning Source Performance

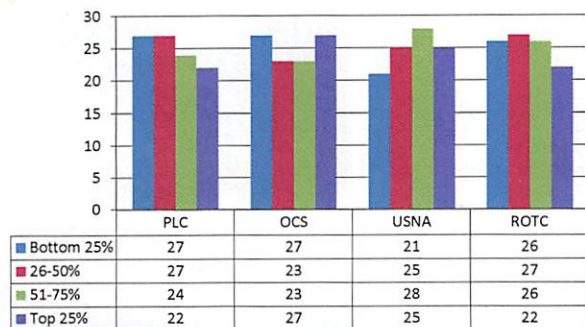
Overall Graduation Rate (%)



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Primary Phase Flight Performance by Quartile and Commissioning Source(%)



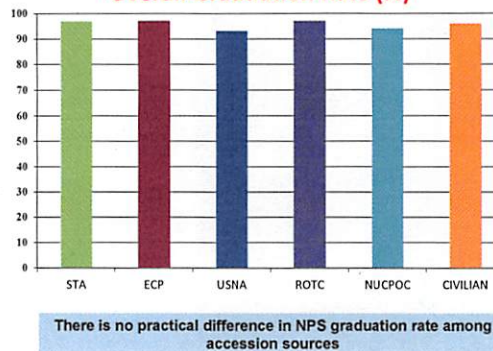
USNA graduates are performing at or above the level of their peers from similar accession sources in Primary Phase Flight scores.

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Nuclear Power School Commissioning Source Performance

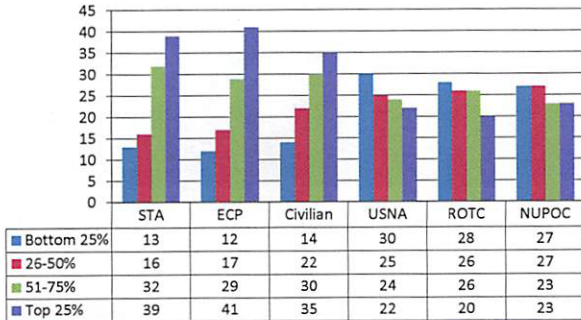
Overall Graduation Rate (%)



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NPS Performance by Graduation Quartile by Commissioning Source(%)



USNA, ROTC, NUPOC make up 82% of the students at NPS. USNA is the only source providing a significant number of non-STEM majors

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2011 SWO Postgraduate Study Survey Purpose and Methodology

Purpose: To evaluate the performance of SWO graduates in the Fleet while providing feedback and recommendations to improve USNA training and accessions programs. This study is in two parts:

- Demographic Data from USNA
 - Demographic data pulled from MIDS database and local data records
 - SWO Order of Merit, 1/C Summer Training cruise utilization and SWO preferences were also researched.
- Survey data from 56 fleet Commanding Officers
 - Survey methodology approved by Navy Survey Approval Authority per OPNAV 5300.8C.
 - 112 Commanding Officers of ships that had Ensigns from USNA Class of 2011 received an email requesting their voluntary participation in this internet based survey.
 - Survey consisted of 26 questions that assessed USNA Ensigns compared Ensigns from other commissioning sources and based on the expectations of the Commanding Officer.

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Guidance to USNA

DODD 1322.22 (Service Academies)

The purpose of the academies is, as follows:

- 4.1.1. To provide an annual influx of career-motivated officers and future leaders into each Service. Those officers shall be immersed in the traditions and professional values essential to the institutional character of the U.S. Armed Forces.
- 4.1.2. The annual accession of a substantial number of officers who have experienced an intensive professional military environment during the achievement of a 4-year college education is a key to maintaining institutional values essential to the military structure. The accession of those officers generates positive peer influence to convey these traditions and values, stimulating the entire force. That serves to sustain professional attitudes, values, and beliefs essential to the long-term readiness of the Armed Forces.

OPNAVINST 5430.330A (USNA Missions, Functions, Tasks)

- Provide and conduct an educational program suitable for producing a graduating class with academic backgrounds commensurate with the needs of the Naval Service.
- Provide Naval science classroom exercises and practical academic year and summer training to be learned through training effort.
- Develop junior officers who possess the leadership, character and strong sense of duty needed to excel in the Navy and Marine Corps who will serve their country with honor, courage and commitment.
- Graduate leaders who are prepared and educated to serve in combat as standard bearers of the Naval profession in service to their nation.
- Provide timely development and revision of curricula for all courses of instruction, for the development of new courses of instruction to support the USNA mission, and for the current and future needs of the Naval Service.
- Encourage candidates with a strong interest in science, engineering, technology and math disciplines to apply for admission to the USNA.
- Commission officers to meet the recruiting goals established by annually mandated CHO (N) with no less than 95 percent of those midshipmen being appointed in the Navy as unrestricted line officers.

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(b) (5)



Survey evaluates effectiveness of USNA along the following...

2020 Vision: To be the nation's premier institution for developing future naval leaders from diverse backgrounds to serve in an increasingly interdependent and dynamic world.

Strategic Imperatives

1. Recruit, admit and graduate a diverse and talented Brigade of Midshipmen.
2. Graduate officers whose attributes and educational and experiential preparation meet the Navy and Marine Corps' current and future requirements.
4. Align all midshipmen's moral, mental, and physical core experiences to prepare them for future service in any naval warfare community.
5. Integrate ethical leadership and character development efforts across all academic, professional, athletic and extracurricular programs.

Mission Areas

- Moral
- Mental
- Physical

External Guidance

DODD 1322.22 (Service Academies)

4.1.1. Provide an annual influx of career-motivated officers and future leaders into each Service... immersed in the traditions and professional values essential to the institutional character of the U.S. Armed Forces.

OPNAVINST 5430.330A (USNA Missions, Functions, Tasks)

Provide and conduct an educational program... commensurate with the needs of the Naval Service.

Develop junior officers who possess the leadership, character and strong sense of duty needed to excel in the Navy and Marine Corps who will serve their country with honor, courage and commitment.

Graduate leaders who are prepared and educated to serve in combat as standard bearers of the Naval profession in service to their nation.

Provide timely development and revision of curricula... for the current and future needs of the Naval Service.

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(b) (5)

Academy Effectiveness Board USNA Post-Commissioning Committee

Fleet Performance – Surface Warfare Postgraduate Study USNA Class of 2011

Pre-Decisional Working Document
November 2012

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2011 SWO Postgraduate Study Survey Purpose and Methodology

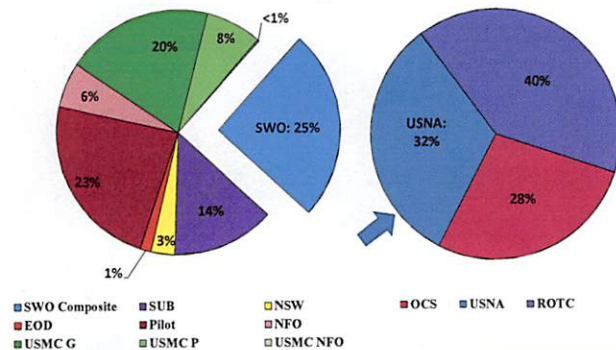
Purpose: To evaluate the performance of SWO graduates in the Fleet while providing feedback and recommendations to improve USNA training and accessions programs. This study is in two parts:

- Demographic Data from USNA
 - Demographic data pulled from MIDS database and local data records
 - Ethnicity, Gender, and Academic Majors were investigated as demographic background for those assigned as Surface Warfare Officers at graduation.
 - SWO Order of Merit, 1/C Summer Training cruise utilization and SWO preferences were also researched.
- Survey data from 56 fleet Commanding Officers
 - Survey methodology approved by Navy Survey Approval Authority per OPNAV 5300.8C.
 - 112 Commanding Officers of ships that had Ensigns from USNA Class of 2011 received an email requesting their voluntary participation in this internet based survey.
 - Survey consisted of 26 questions that assessed USNA Ensigns compared Ensigns from other commissioning sources and based on the expectations of the Commanding Officer.

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Pre-Decisional Working Document

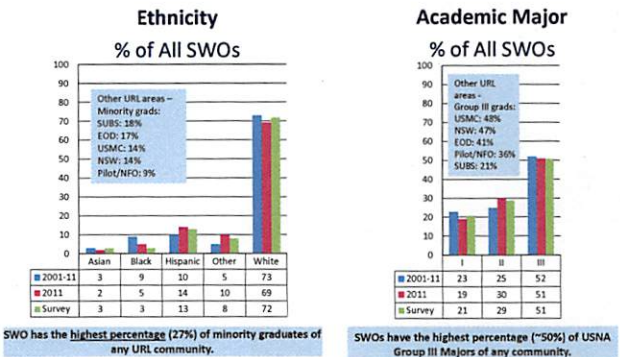
Background



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Pre-Decisional Working Document

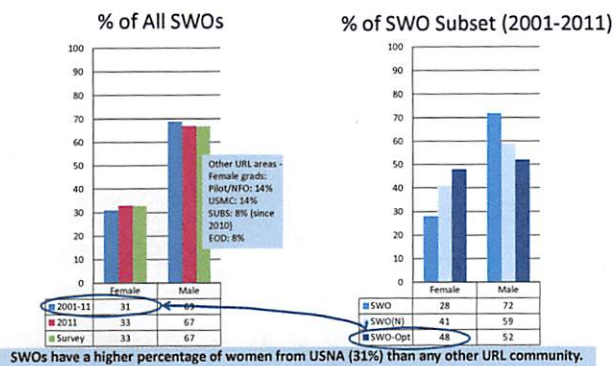
USNA SWO Demographics



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Pre-Decisional Working Document

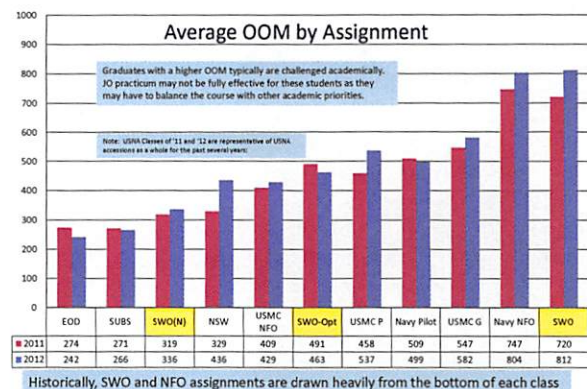
USNA SWO Gender Demographics



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Pre-Decisional Working Document

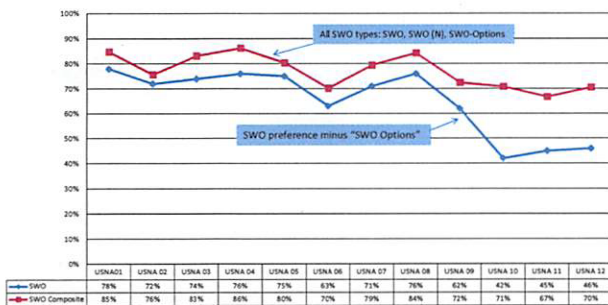
Demographics Order of Merit for Classes of 2011 and 2012



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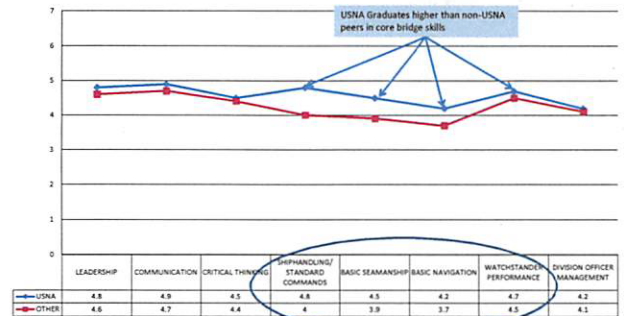
Service Assigned SWO – Preference Matching

% of Assigned with Surface Warfare as Top Preference



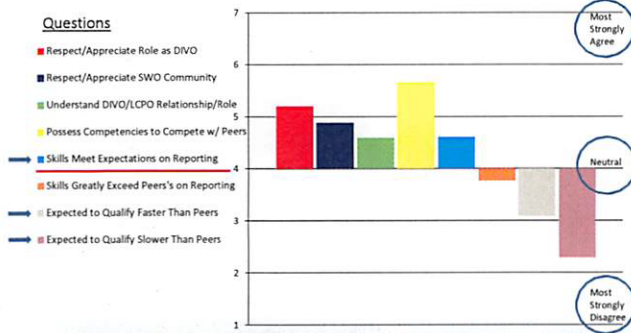
Over time, more Mids looked favorably on "SWO-Options", as a primary service assignment. SWO-Option grads will impact the community by later laterally transferring after initial assignment

Survey Results Part I (Comparative Traits)



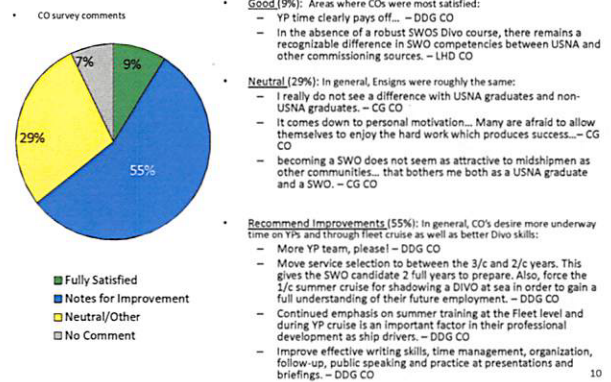
USNA graduates were rated above ROTC & OCS peers most significantly in areas covered onboard YPs, which are USNA specific and an opportunity for further capitalization

Survey Results Part II (Descriptive, USNA Only)



USNA Graduates generally meet CO's expectations, and are viewed as competitive with peers; However, they are not expected to qualify faster or slower than ROTC & OCS peers.

Survey Results Part III CO's Comments (56 Responding COs)



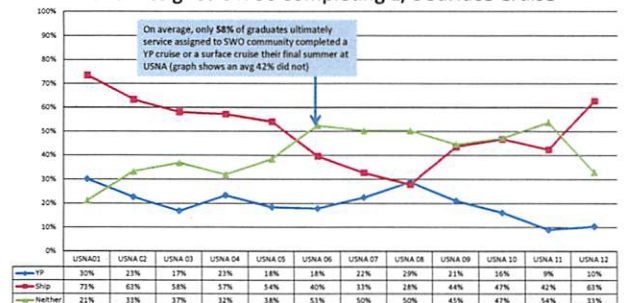
General Study Impressions

- Fleet COs rate USNA grads above peers in demonstrated bridge skills.
- Most COs state there is little difference in overall performance regardless of accession source and they do not expect USNA grads to qualify either fast or slower than ROTC or OCS grads
- In general, poor OOM is not a burden as USNA SWO grads perform at acceptable levels in the fleet
- The majority of Fleet CO's indicate there is room for improvement in the quality of USNA SWO grads (58%). YP & Fleet U/W time at sea as well as Divo skills are valued
- Mids will continue to select the SWO community as there 1st choice assignment at level below (~70%) what is the established goal.
- SWO Options are attractive choices that draw talent away from long term service in the Surface Warfare community

(b) (5)

Service Assigned SWO

% of Assigned SWOs Completing 1/C Surface Cruise



Midshipmen meet 1/C Fleet cruise requirements but current model allows future Surface Officers to service assign SWO without completing a 1/C Summer Cruise on a YP or surface ship (42%).

Questions?

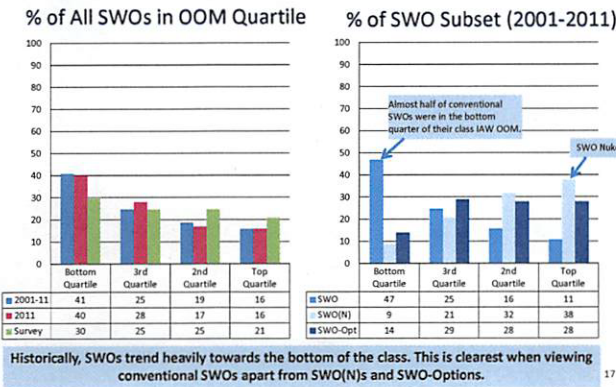
BACKUP SLIDES

Background: Considerations and Limitations

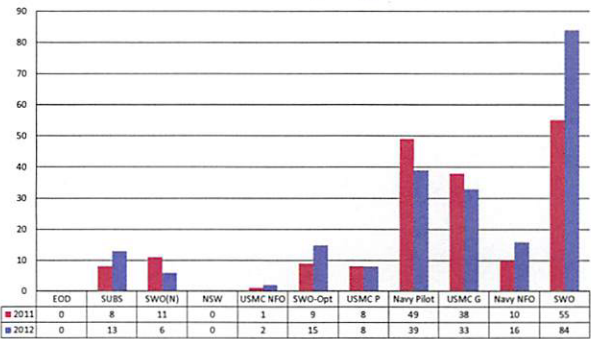
- Other URL communities assessed based on “schoolhouse” performance. A fleet “survey” was conducted to assess SWO accessions because:
 - Initial surface accessions training was stopped in 2002.
 - Limited schoolhouse training occurred after 1 to 2 years of sea duty, making schoolhouse performance more reflective of ship than commissioning source.
 - Assessing performance through COs offered an opportunity to assess actual fleet performance as viewed by the Reporting Senior.
- Survey based on “subjective” assessments by COs of YG11 Ensigns only:
 - Comparative data rated Ensigns by source in core competencies performance
 - Descriptive data rated USNA Ensigns only (as a group) on whether COs felt they agreed or disagreed they possessed certain professional attributes.
 - Non-USNA SWOs were rated in aggregate so no specific conclusions could be drawn as to how ROTC or OCS compared to USNA individually.
 - Names of USNA Ensigns were solicited, but by-name ranking not permitted.
 - Responses do not differentiate between SWO, SWO(N), and SWO-Options.

NOTE: COs were also queried as to their own commissioning source. CO's commissioning source was determined to have no statistically significant effect on their evaluations.

USNA SWO OOM Demographics

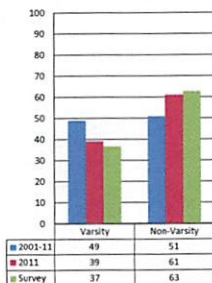


Background
Classes of 2011 and 2012
Women SWOs by Assignment

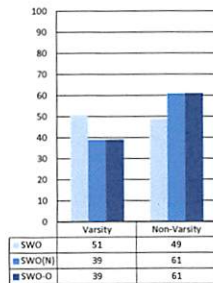


USNA SWO Demographics Classes of '01 thru '11

Varsity Athletics



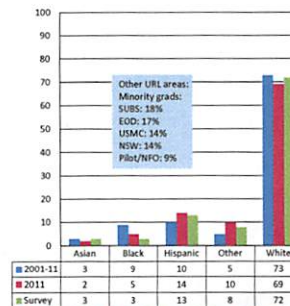
Varsity Athletics



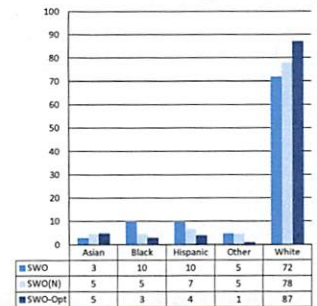
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USNA SWO Ethnicity Demographics

% of All SWOs



% of SWO Subset (2001-2011)

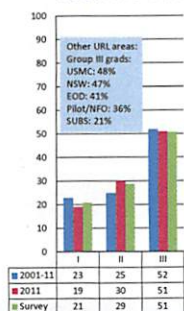


SWOs have the highest percentage (27%) of USNA minority graduates of any other community. The disparity is most pronounced in the conventional SWO subset. Navy wide, 20.3% of officers in the grades of O1-O3 were minorities according to the DOD 2010 Demographics Report.

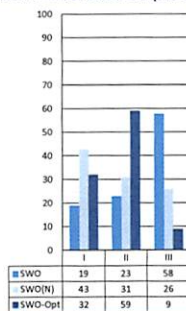
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Background USNA SWO Academic Major Demographics

% of All SWOs



% of SWO Subset (2001-2011)

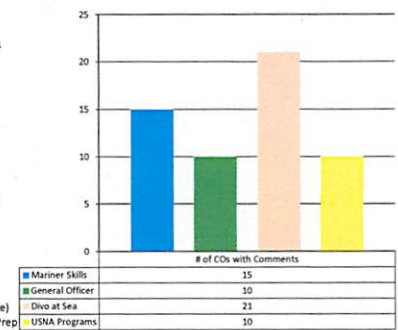


SWOs have the highest percentage (~50%) of USNA Group III Majors of any other community. This is most pronounced in the conventional subset where well over half are Group III Majors.

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Survey Results Part III CO's Comments (31 CO's Recommending Improvements)

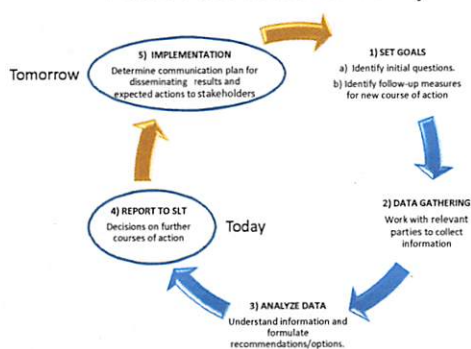
- Professional Mariner Skills
 - MOBOARDS
 - Shiphandling/Standard Commands
 - Seamanship
 - Navigation
 - Watchstanding
 - Rules of the Road
 - Basic Damage Control
- General Officer Skills
 - Leadership
 - Communication
 - Critical Thinking
- SWO DIVO at Sea Specific Skills
 - Division Officer Admin
 - Division Officer Management
 - Technical Knowledge
 - Appreciation of Role as DIVO
 - Appreciation of SWO Community
- USNA Programs
 - Yard Patrol Craft (uniformly positive)
 - Practicum or post-selection SWO Prep
 - Summer Training



NOTE: Represents the number of CO's (of the 31 recommending improvements) with at least one comment in a given category. Some CO's commented in multiple categories.

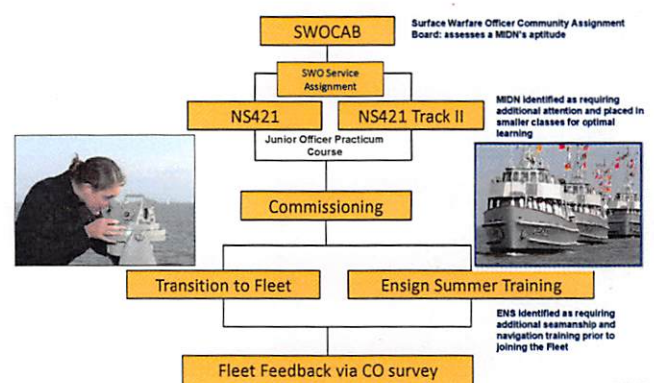
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AEB Assessment Cycle



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USNA Surface Warfare Officer Training



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(b) (5)

(b) (5)

SELECTED CO COMMENTS

EST PARTICIPANTS

DDG CO- I have found that most USNA graduates outpace their NROTC and OCS counterparts in terms of early competency (arrival on board through SWO qual), but following SWO qual things balance out pretty evenly. USNA graduates appear to be more confident at an early level, but do not have any specific strengths with regard to officer-enlisted interaction, most notably with their assigned LCPO.

LPD CO- On the whole the ENS joining the fleet are eager and hungry to learn. They do find some difficulty in managing Division Officer work with watchstanding routine. This is usually worked out in the first 4 - 6 months. *For the most part they are knowledgeable with their standard commands, but they do lack Rules of The Road competencies.*